

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

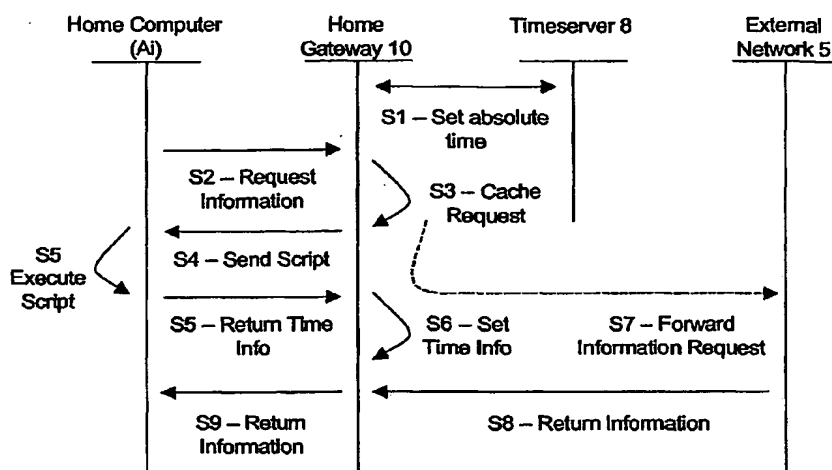
PCT

(10) International Publication Number  
**WO 2005/069521 A1**

- (51) International Patent Classification<sup>7</sup>: **H04J 3/06**, (74) Agent: KERBER, Thierry; 46, quai Alphonse Le Gallo, H04L 12/28 F-92648 Boulogne Cedex (FR).
- (21) International Application Number: PCT/EP2005/050002 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 3 January 2005 (03.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04447003.7 9 January 2004 (09.01.2004) EP
- (71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46, quai A. Le Gallo, F-92100 Boulogne-Billancourt (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DUMET, Sylvain [FR/BE]; Koning Albertstraat, 56, B-1785 Merchtem (BE). VAN DE POEL, Dirk [BE/BE]; Mercatorstraat 116, B-2018 Antwerpen (BE).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: TIME SYNCHRONIZING DEVICE AND PROCESS AND ASSOCIATED PRODUCTS



(57) Abstract: The present invention concerns a time synchronizing device (1) and process, and a local gateway comprising that device. The time synchronizing device synchronizes a router arranged between two communication networks. It comprises intercepting means (13) of a message (MSG) coming from an apparatus of a source network for that message, having a specific time clock, and directed to a target network for that message, preparing means (14) of a time request (RQ) able to be executed in that apparatus so as to cause synchronizing data (SYNC) based on that specific clock to be obtained from that apparatus and to be transmitted back to the synchronizing device, sending means (15) of the time request to the apparatus, forwarding means (16) of the intercepted message to the target network after the preparing means have prepared the time request, receiving means (11) of the synchronizing data, and exploiting means (12) of those data to synchronize a local time clock (CLO) used by the router with respect to that specific time clock. Application to home networks.

WO 2005/069521 A1



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*